Lab Assignment

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Cybersecurity Professional Program

Introduction to Python
for Security

Loops

PY-03-L1
Range Loop

Lab Objective

Understand how to work with loops and the range function in a script.

Lab Mission

Practice how to create a range with various inputs in a loop.

Lab Duration

10 – 20 minutes

Requirements

- Basic knowledge of loops and the range function.

Resources

- Environment & Tools
    - Windows, macOS
        - Python 3
        - PyCharm

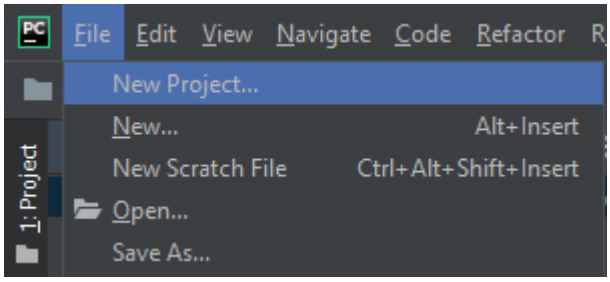
Textbook References

- Chapter 3: Loops
    - Section 1: For & While

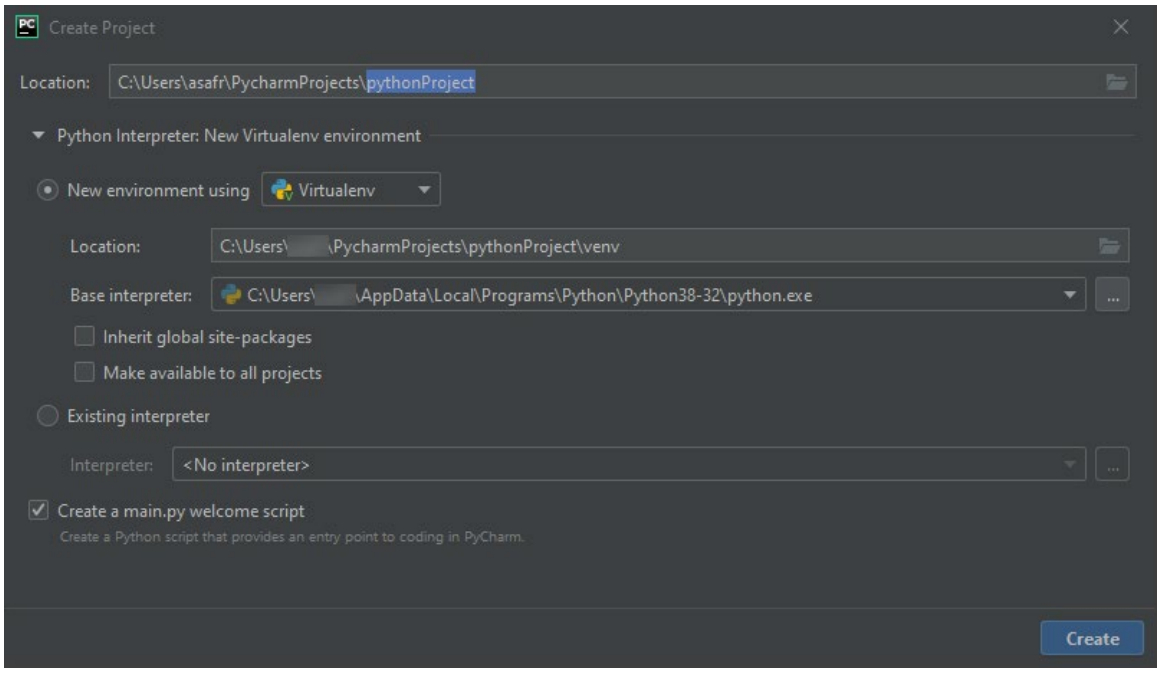
Lab Task: Range Loop

Write code in which the range function is modified in accordance with input from the user.

1. Open PyCharm, click **File** at the top left, and select **New Project**.



2. Give the new project a name, and click **Create**.



3 Create a variable that gets a number from the user to be used as the ***range*** function's upper limit.

```
upper_bound = input("Choose the range upper bound --> ")
```

4 Convert the input to an integer.

```
upper_bound = int(input("Choose the range upper bound --> "))
```

5 Create a ***for*** loop with the range function, where its starting point is 1, and its upper limit is the input from the user in the previous step.

```
upper_bound = int(input("Choose the range upper bound --> "))

for x in range(1, upper_bound):
```

6 Add a print function in the ***for*** loop that prints the result of each iteration.

```
upper_bound = int(input("Choose the range upper bound --> "))

for x in range(1, upper_bound):
      print("The next number in line is {}".format(x))
```